

1 **ABSTRACT**

2 Cache management strategies are described for retrieving information from a
3 storage medium, such as an optical disc, using a cache memory including multiple cache
4 segments. A first group of cache segments can be devoted to handling the streaming
5 transfer of a first type of information, and a second group of cache segments can be
6 devoted to handling the bulk transfer of a second type of information. A host system can
7 provide hinting information that identifies which group of cache segments that a
8 particular read request targets. A circular wrap-around fill strategy can be used to
9 iteratively supply new information to the cache segments upon cache hits by performing
10 pre-fetching. Various eviction algorithms can be used to select a cache segment for
11 flushing and refilling upon a cache miss, such as a least recently used (LRU) algorithm or
12 a least frequently used (LFU) algorithm.